FIGURE 1A

Amino Acid Sequences 12.12

12.12 Light chain:

loader: Malpaqliglimilwyegeeg

variable:

DIVMTQSPLSLTVTPGEPASISCRSSQSLLYSNGYNYLDWYLQKPGQSPQVLISLGSNR ABGVPDRFSGSGSGTDFTLKISRVEAEDVGVYYCMQARQTPFTFGPGTKVDIR

RTVAAPSYFIFPPSDEQLKSGTASVVCLLNNFYPREAKYQWKVPMALQSGNSQESVTEQ DSKDSTYSLSSTLTLSKADYEKHKYYACEVTHQGLSSFVTKSFNRGEC*

FIGURE 1B

12.12 Heavy chain:

leader: MRFGLSWVFLVAILRGVQC

variable:

QVQLVEBGGGVVQPGRALRLECAAAGFTF65YGKHWVRQAPGKGLHWVAVI6YEEBIRY HADEVKGRFTI6RDN8KITIYIQMM6LRTEDTAVYYCARDGGIAAPG9DYWGQGTLVTV 68

donstant:

Astropsvelapaskstaggtaalgclykdyspepvyvewaggaltsgvetpavilqs sglyslsbvytvpssslgtotylcovnekpsnykvdkrvepkscdkthtcppcpapeli ggpsveltpppkpkdtlmisrtbevycvvvdvehedpevkfnwyvdgvevhmaktrpree gynstyrvvbvltvleddwlngkeykckvsnkalpapiektiskakggprepqvytlpp sreentknovsltvleddwlngkeykckvsnkalpapiektiskakggprepqvytlpp sreentknovsltolykgfypsdlavewesngopennyktyppvldsdgsfflyskltv oksrwoognvfscsvmealhneytokslslspgk*

alternative constant region:

ASTROPSVFPLAPSKETSGGTAALGCLVKDYFPEPVTVSWAGALTSGVHTFPAVLQS EGLYSLSSVVTVRSSSLGTQTYICNVMHRPSMTRVDRRVEPRSCDRTHTCPPCPAPELL GGPSVTLFPPRPRDTIMISRTPEVTCVVVDVSHEDPEVRTNWYVDGVEVHAARTRPREE QYNSTYRVVSVLTVLEQDWLNGREYRCKVSNKALPAPIERTISRARGQPREPQVYTLPP SREEMTRNQVSLTCLVKGFYPSDTAVEWEGNGQPSHNYKTTPPVLDSDGSFFLYSKLTV DKSRWQQGNVFSCSVMEALHNHYTQKSLSLSPGK*

FIGURE 2A

DNA sequence of Light chain of 12.12

FIGURE 2B

DNA sequence of Heavy chain of 12.12 (including introns)

5'atggagtttgggctgagctgggttttccttgttgctattttaagttgtgtgtccagtgtcagetgcagttggtggagtctgggggag gogtggtcoagcctgggaggtccctgagactctcotgtgcagcctctggattcaccttcagtagctatggcatgcactgggtccg gccgattcaccatctcagagacaattccaagatcaugutgtatetgcaaatgaacagcctcagaactgaggacaoggctgtgta ttactgtgcgagagatgtgtgtgtatagcagcacctgggcctgactactggggcongggaaccctggtcaccgtctcctcagcaa gfaccangggcocatoogtettocccetggcgcccgctagcangagcacctclggggggcacagcggccttgggctgcctggt caaggactacticcccgaaccggtgacggtgtcgtggaactcaggcgccctgaccageggcgtgcacacolicccggctgtcc tacagtectenggactetactectengengeggggggggggcecteengengottgggeneeengqeetacatetgenaegt cacceggaggcetctgcccgcccactcatgotcagggagagggtettetggolliltocccagggctotgggaaggcacaggct aggigecoctaacccaggocotgeacacaaaggggeaggigeigggeicagacetgccaagagccatatccgguaggaccc tgccctgncotangcccacccannggccnnnotctccnctcctcagctcggacnccttotctcctccagnttccagtanctc constitutetetetengagecennatettgtgaennanetenonentgecenegtgeonggtungeengeenggetege cetceagerenaggegggaenggtgeetrigagtageetgeateenggganaggeeeengeegggtgotgaenegteeacet centetettectengeneetganeteetggggggacogleagtetteetetteececannacconnggaonocctentgalotec cggaccctgaggtcacatgcgtggtggtggacgtgagccacgaagaccotgaggtcaagttcaactggtacgtggacggcg tggaggtgcataatgccaяgacaaagccgcgggaggagcagtacaacaagcacgtacogtgtggtcagcgtcctcaccgtcct gonceaggactgectgaatggcanggagtacaagtgcanggtctccancaangccolocongecccoategugananceato tecaangeennaggtgggaccegtggggtggggggacagagggcgggteggccaccctctgccctgagagt gacogorgraceaacetetgtecetacagggoagececgagaaceacaggragineaceetgececcatecegggaggagatg accangancenggtengcetgacetgcetggtenanggottetatecengegacategcogtggagtgggagageantggge ageoggagaacaactacaagaccaegcotcoogtgotggacteegaeggeteettelleetetatageaageteacegtggaca agageaggtggcagcagggggaacgtcttctcatgctccgtgatgcatgaggctctgcacnnccactacacgcagaagacctc lccotgtctccgggtaaatga3'

FIGURE 3A

Amino Acid Sequence for 5.9 5.9 Light chain:

loader: Mallagliglimlwypgssg variable:

ATVMTQPPLABPYTLAQPASISCRBQSLVHBDQNTYLMWLQQRPQQPPRLLIYKFFRR LBGVPDRFBGBGAGTDFTLKIBRYPAEDVGVYYCMQVTQFPHTFGQGTRLEIK cometant.RTVAAPSYFIFPPSDEQLKSGTASVVCLLMNFYPREAKVQWKVDNALQSG MSQESVTEQDSKDSTYSLSSTLTLSKADYEKSKYYACSVTHQGLSSPVTKSFNRGEC*

FIGURE 3B

5.9 Heavy chain:

leader:Mggtailalilavlqgvca varlable:Evqlvqsgaevkrpgeslkisckgsgysftsywigwvrqmpgkglewkgt Ivfgdsdtryspspqqqvtisadksistavlqwslkasdtamyycargtaagrdyyyy

constant region;

YGMDVWGQGTTVTVES

Actropeveplapasketeggtaalgclvkdyppepvtvewnbgaltegvateravlqs sglyblbavvtvp886lgtqtytchvnihd8ntkvdkrvepk8cdkthtcppcpapell ggdsvblpppkpkdtlmigrtpevtcvvvdvehedpevkfnwvvdgvevhnaktkbree Qynstyrvv8vltvlbqdwlngkeykckv8nkalpaplekt16kakgqprepqvytlpp sreemtknqv6ltclvkgfyp8dIavewe8ngqpennykttppvld8dg6pply6kltv dk8rwqqgnvf6c8vmealhmbytqk6l6l8pgk*

or alternative constant region:

ASTKOPSVEPLAPSSKETSGGTAALGCLVKDYFPEPVTVSWASGALTSGVHTFPAVLQS EGLYGLSVVTVPSSSLGTQTVICNVNAKPSNTKVDKRVEPKSCDKTRTCSPCPAPBLL GGPSVFLFPKPKDTLMISKTPEVTCVVPVSHEDPEVKFMWYVDGVEVHAKTKPREE QYNSTYRVVSVLTVLMQDWLMGKEYKCKVSNKALPAPISKTISKAKGQPREPQVYTLPP SREEMTKNQVSLTCLVKGFYPSDIAVEWSSNGQPENNYKTTPPVLDSDGSFFLYSKLTV DKSKKQQGNVFSCSVMHMALHMHYTOKSLSLSPGK

FIGURE 4A

Coding sequence for short isoform of human CD40:

- 1 atggttegle tgeeletgea gigogteete tggggelgel tgetgaeege tgteeateea
- 61 gazocaccoa olgoalgoag agazaaacag tacclastaa acagloagig olgilollig
- 121 igccagccag gacagaaaot ggtgagtgac tgcacagagt tcactgaaac ggaatgcett
- 181 octtgeggig aaagegaatt eetagaeace tggaacagag agacacactg ceaccagcac
- 241 aaataolgog accecaacet agggettegg grecageaga agggeacete agaaacagae
- 301 accatelgoa celgigaaga aggolggcao igiaogagig aggoolgiga gagoigigio
- 361 elgeaceget catgologeo eggetttggg gleaageaga ttgetacagg ggttletgat....
- 421 accalcigeg agencigene agleggette tieteeaatg tgleatetge lilegaaaaa
- 481 tgtcacccit ggacaaggte eccaggateg getgagagee etggtggtga tecceateat
- 641 cttcgggate cigiligeca tectetiggt getggtettt ateaaaaagg tggccaagaa
- 601 gccaaccaat aa

FIGURE 4B

Encoded short isoform of human CD40:

- 1 mvripiqovi wgcillavinp epplacreką ylinegocel capgakived clefteteci
- 61 pogeselidt warethetigh kycdpalgir vaqkglaeld ticlceegwir claeacescv
- 121 Ihrscspgig vkqiatgvad ticepcpvgi fanvasafek chpwtrapga aeapggdphh
- 181 Irdpvohpig aglyqkggqe anq

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FIGURE 4C

Coding sequence for long isoform of human CD40:

- 1 atgattagto igeototgea gigeglecte tggggetget tgetgacege tgtccateca
- 61 gaaccacca elgcatgcag agaaaaacag tacetaataa acagteagig etglicilig
- 121 Igecagecag gacagaaaol ggigagigao igoacagagt teacigoaac ggaatgeett
- 181 ootigeggig eaagegaatt eetagacaee tggaacagag agacacactg eeaceageae
- 241 aaatacigcg accccaacct agggettegg glecageaga agggeaccte agaaacagao
- 301 accatelgea cetgigaaga aggotggcae tgtacgagig aggcotgtga gagetgigte
- 361 olgeaccect categologic eggettiggg gleasgeaga ligetacagg ggmetgat
- 421 accatelgeg agreetgeee agleggette ttelecaatg tgteatelge titogaaaaa
- 481 tgteaccell ggacaagetg tgagaccaaa gaootggttg tgcaacaggc aggcacaaac
- 541 aagacigatg tigleigigg (ceeeaggat eggetgagag eeetggiggt gateeeeate
- 601 atottoggga teelgttige eatectetig gigolgglot itatoaaaaa ggiggecaag
- 661 aagecaacca alaeggoeco ceaceceaag caggaaccee aggagaleaa liticougac
- 721 gatelicely getecaacae tgetgeteea gtgeaggaga etttacatgg atgecaaceg
- 781 gicacccagg aggatggcaa agagagtogo atolcagtgo aggagagaoa giga

FIGURE 4D

Encoded long isoform of human CD40:

- 1 myripigovi wgciliayhp epplacreką ylinsgossi cąpągkivad ctefteteci
- 61 popeselidt woreiholigh kycopnigir vaakgisetd tictoeegwh ciseapecov
- 121 Ihrecspgfg vkqlatgvad ticopopygf fsnvasafek chpwtacetk divyqqagtn
- 181 ktdyvegpqd riralvvipi ifgilfalii vivfikkvak kptnkaphpk qepqalnfpd
- 241 dippentaap voetingcop vroedgkeer isvoero

FIGURE 5A

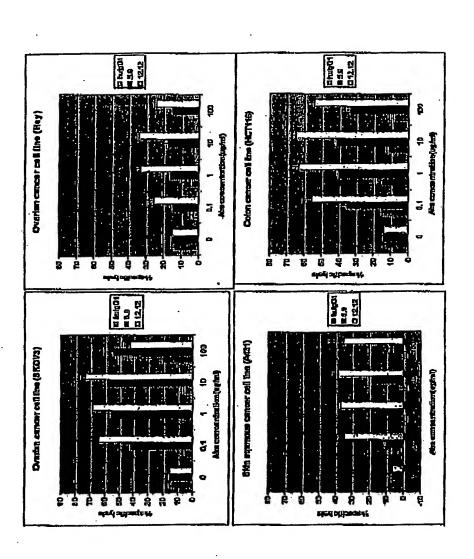


FIGURE 5D

IGURE 5C

FIGURE 6B

FIGURE 6A

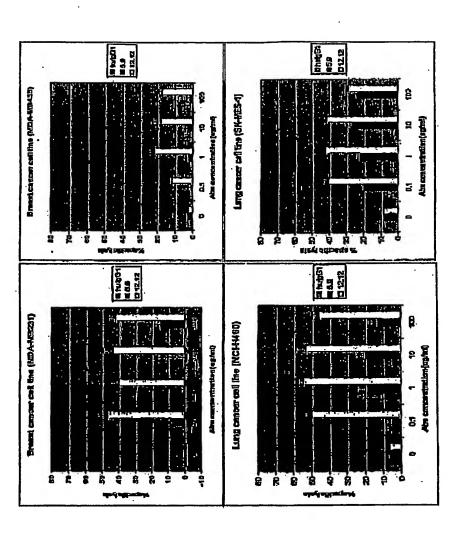
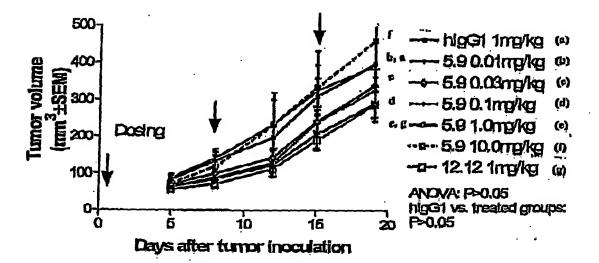


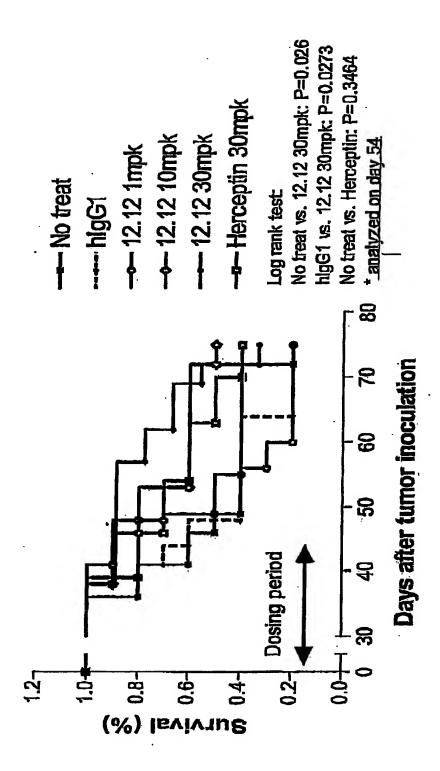
FIGURE 6D

GURE 6C

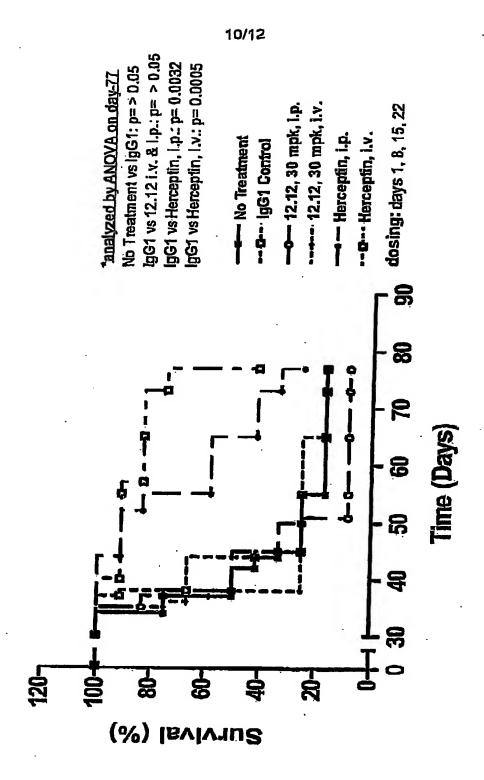
FIGURE 7

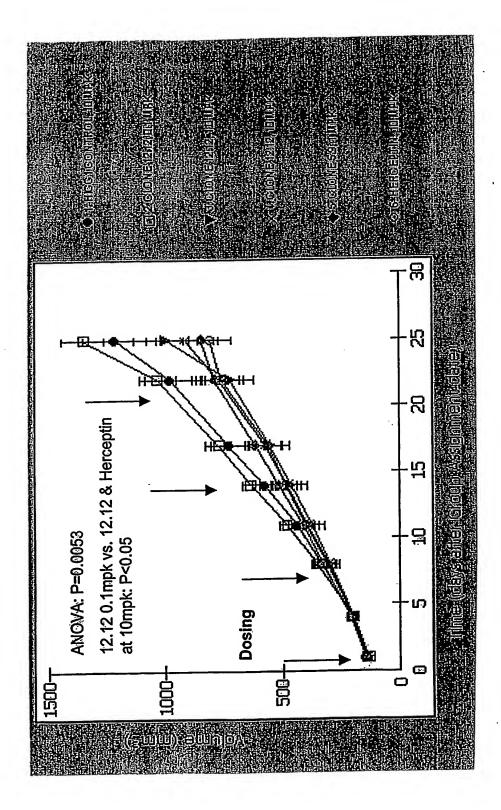












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FIGURE 11

